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APPLICATION NO.	N NO. FILING DATE FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/652,841	0,8/31/00	AGARWAL		V	98-0616.02
-			٦	EXAMINER	
		MM91/0412			
CHARLES B BRANTLEY II MICRON TECHNOLOGY INC MAIL STOP 525				ART UNIT	PAPER NUMBER
8000 S FEDE BOISE ID 83	RAL WAY			2815 DATE MAILED	:
					04/12/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

J. & 1		Applicati	on No.	Applicant(s)					
	Office Action Summary	09/652,8	41	AGARWAL, VISHNU K.					
./ Onice Action Summary			T	Art Unit					
		José R. D	liaz	2815					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NC - Failt - Any	MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) date of period for reply is specified above, the maximum statutor under the provision of the provision of the provision of the period for reply is specified above, the maximum statutor under the provision of th	TION. ' CFR 1.136 (a). In no evation. ys, a reply within the staty period will apply and weby statute, cause the app	vent, however, may a reply be to utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
1)[]	Responsive to communication(s) filed	on							
2a) <u></u> □	This action is FINAL . 2b)	★ This action is	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)⊠	6)⊠ Claim(s) <u>1-3</u> is/are rejected.								
7)	') ☐ Claim(s) is/are objected to.								
8)[
Applicat	ion Papers								
9) The specification is objected to by the Examiner.									
10)									
11) The proposed drawing correction filed on is: a) approved b) disapproved.									
12) The oath or declaration is objected to by the Examiner.									
Priority (ınder 35 U.S.C. ≬ 119								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. ☐ Certified copies of the priority documents have been received.									
Certified copies of the priority documents have been received in Application No									
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).									
Attachmen	t(s)								
16) 🔲 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO rmation Disclosure Statement(s) (PTO-1449) Pape			rry (PTO-413) Paper No(s) I Patent Application (PTO-152)					

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Art Unit: 2815

DETAILED ACTION

Claim Rejections - 35 USC § 102

> The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- Claims 1-3 rejected under 35 U.S.C. 102(e) as being anticipated by Cuchiaro et al. (US Patent No. 6,165,802).

Regarding claim 1, Cuchiaro et al. teach a method of treating a semiconductor device (see columns 1-16), comprising: providing a capacitor (118) having a first plate (120), a dielectric (122) over said first plate, and a first conductive layer (124) over said dielectric (see figure 1); and exposing said first conductive layer to an N2/H2 plasma (see col. 10, lines 43-45).

Regarding claim 2, Cuchiaro et al. teach providing an in-process capacitor and a second conductive layer (126) over said first conductive layer (see Figure 1).

Regarding claim 3, Cuchiaro et al. teach defining a top plate with said first conductive layer (124) and said second conductive layer (126) (see Figure 1).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takaishi (US Patent No. 5,726,083) disclose process of

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fabricating DRAM having storage capacitor low in contact resistance and small in

leakage current through tantalum oxide film.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to José R. Díaz whose telephone number is (703) 308-

6078. The examiner can normally be reached on 8:00 - 5:00 Monday through Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on (703) 308-1690. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7722

for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

JRD

April 9, 2001

EDDIE LEE

SUPERVISORY PATENT EXAMINER

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